

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

FIG. 1 PRIOR ART

	Conventional	Low swing signaling
Concept		
Power	$CV_{dd}^2 f$	$CV_{dd} V_s f$
Delay	$CV_{dd}^2 / (V_{dd} - V_{th})^\alpha$	$CV_{dd} / (V_{dd} - V_{th})^\alpha$

FIG. 2 PRIOR ART

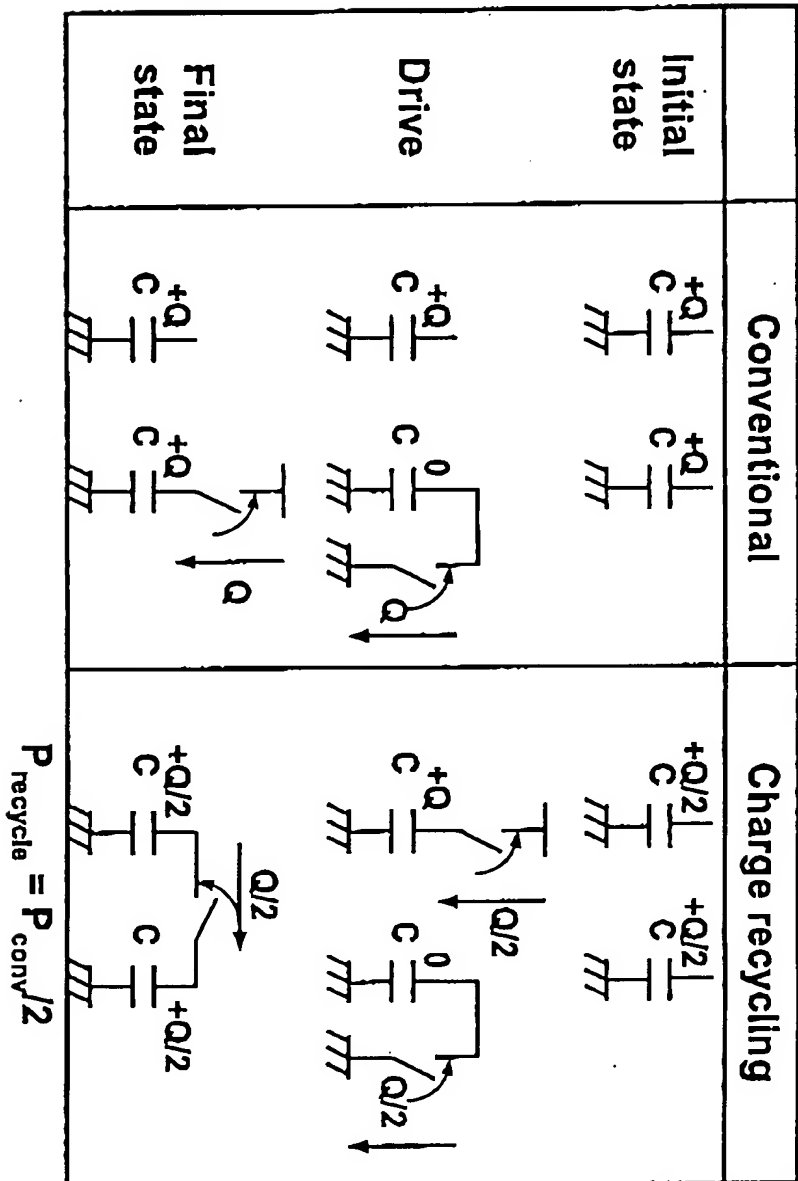


FIG.3

PRIOR ART

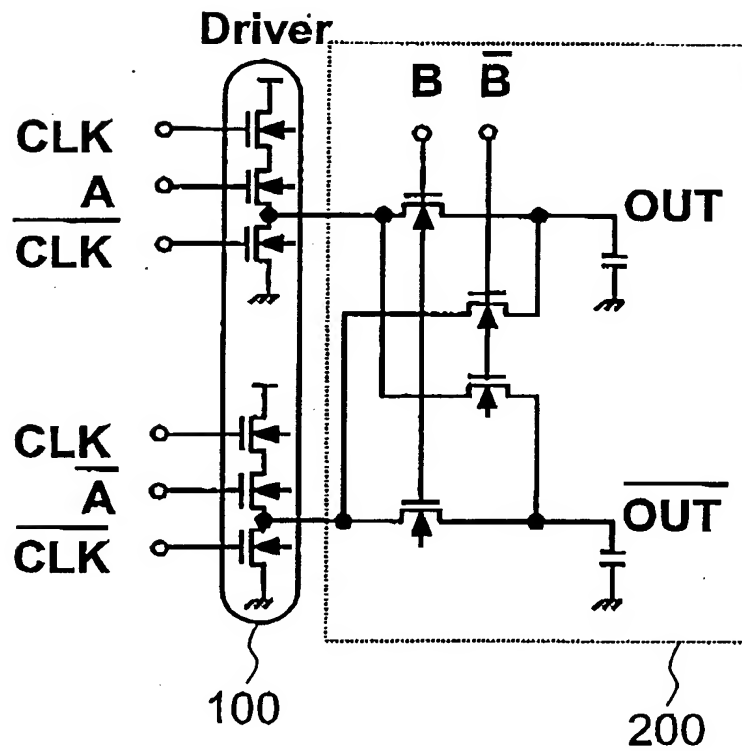


FIG. 4

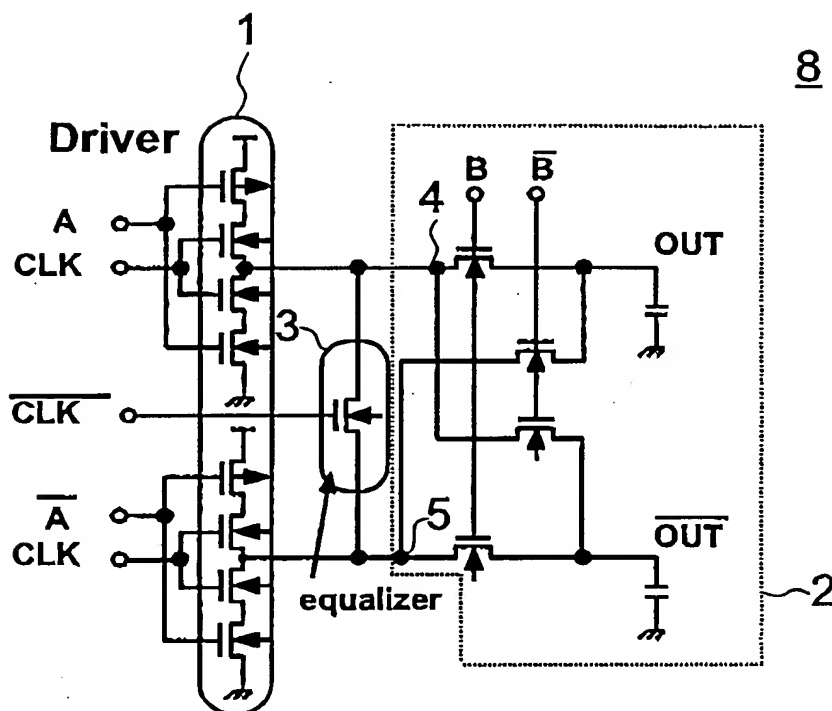


FIG. 5 PRIOR ART

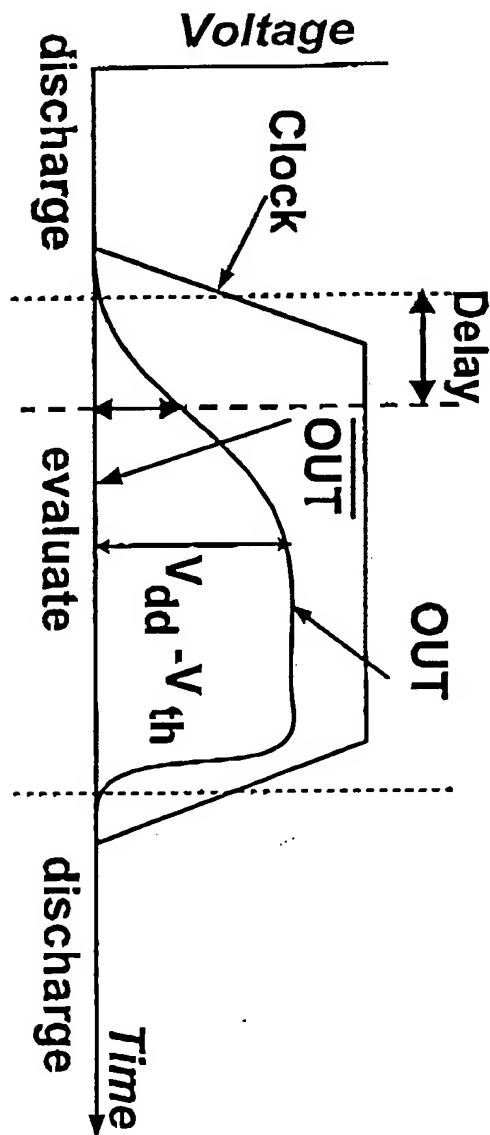


FIG. 6 PRIOR ART

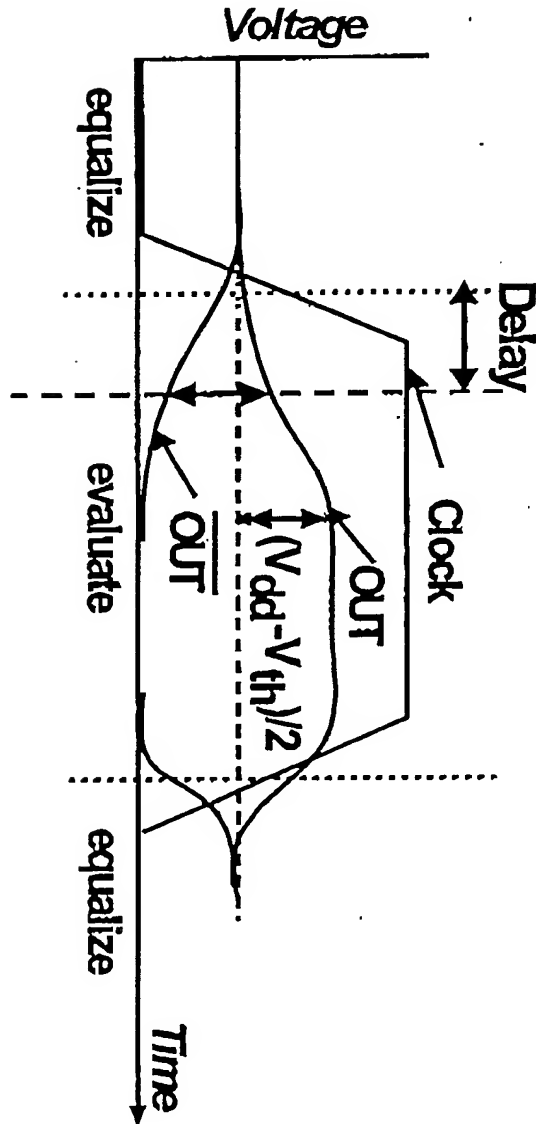


FIG. 7

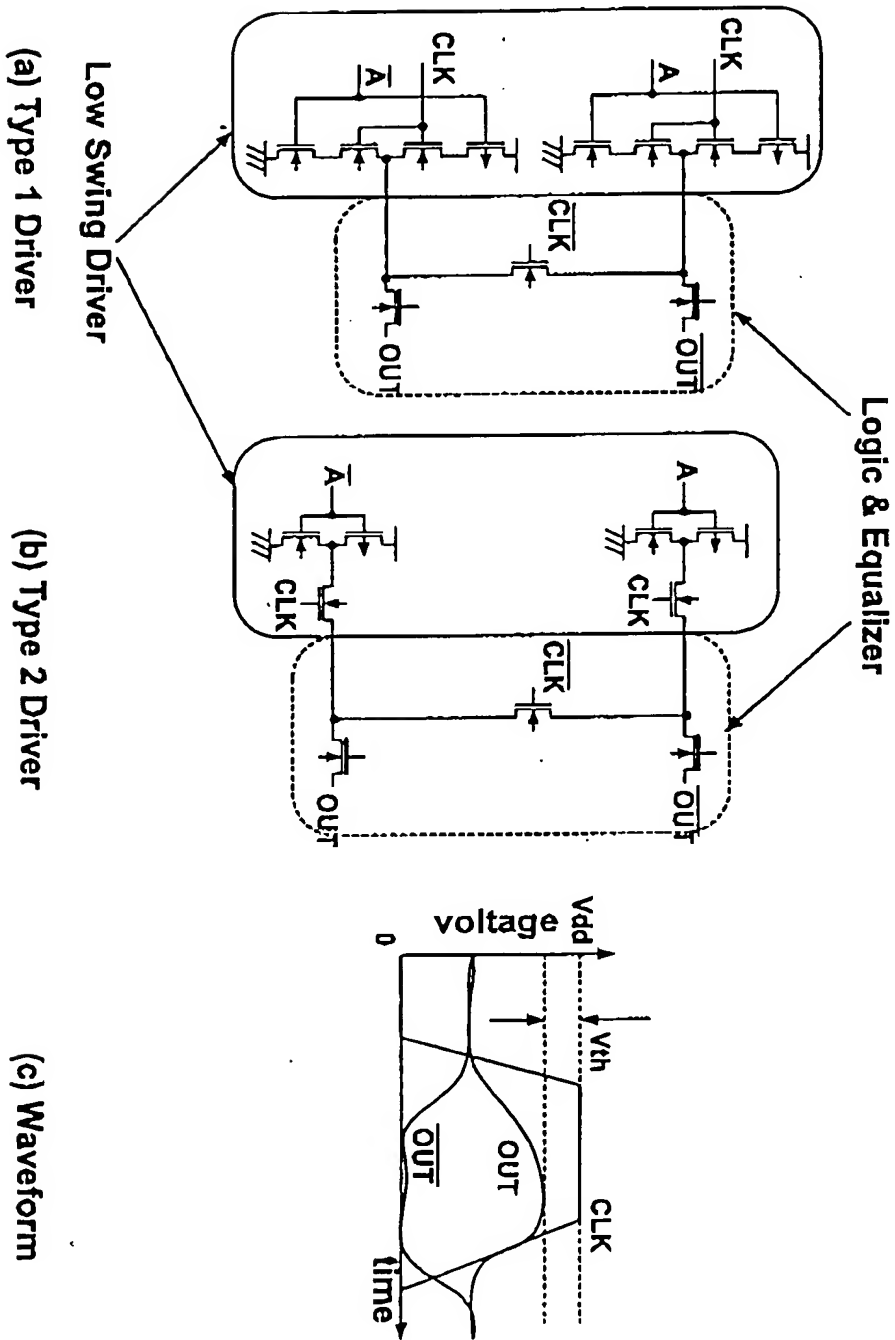




FIG. 8

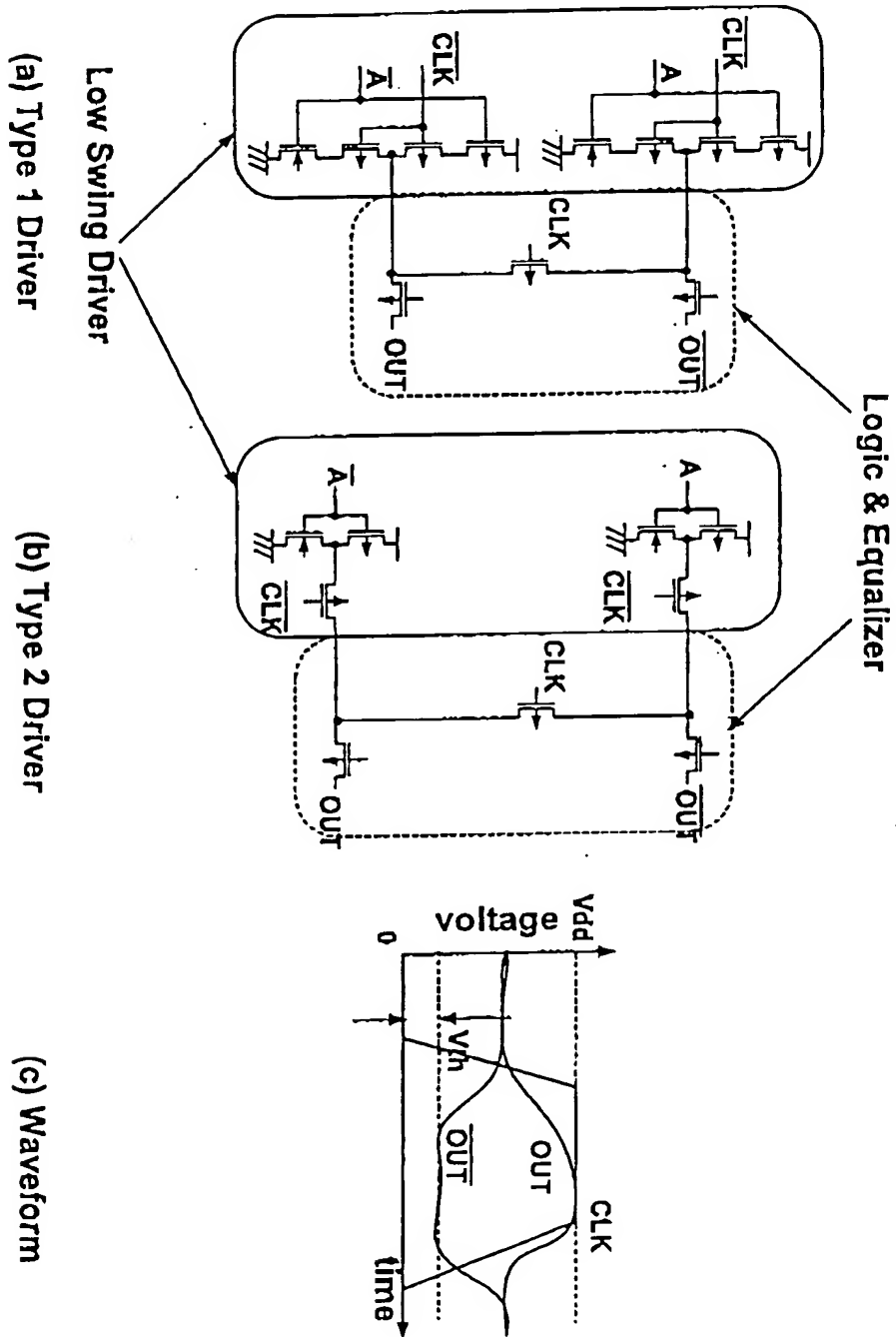


FIG. 9

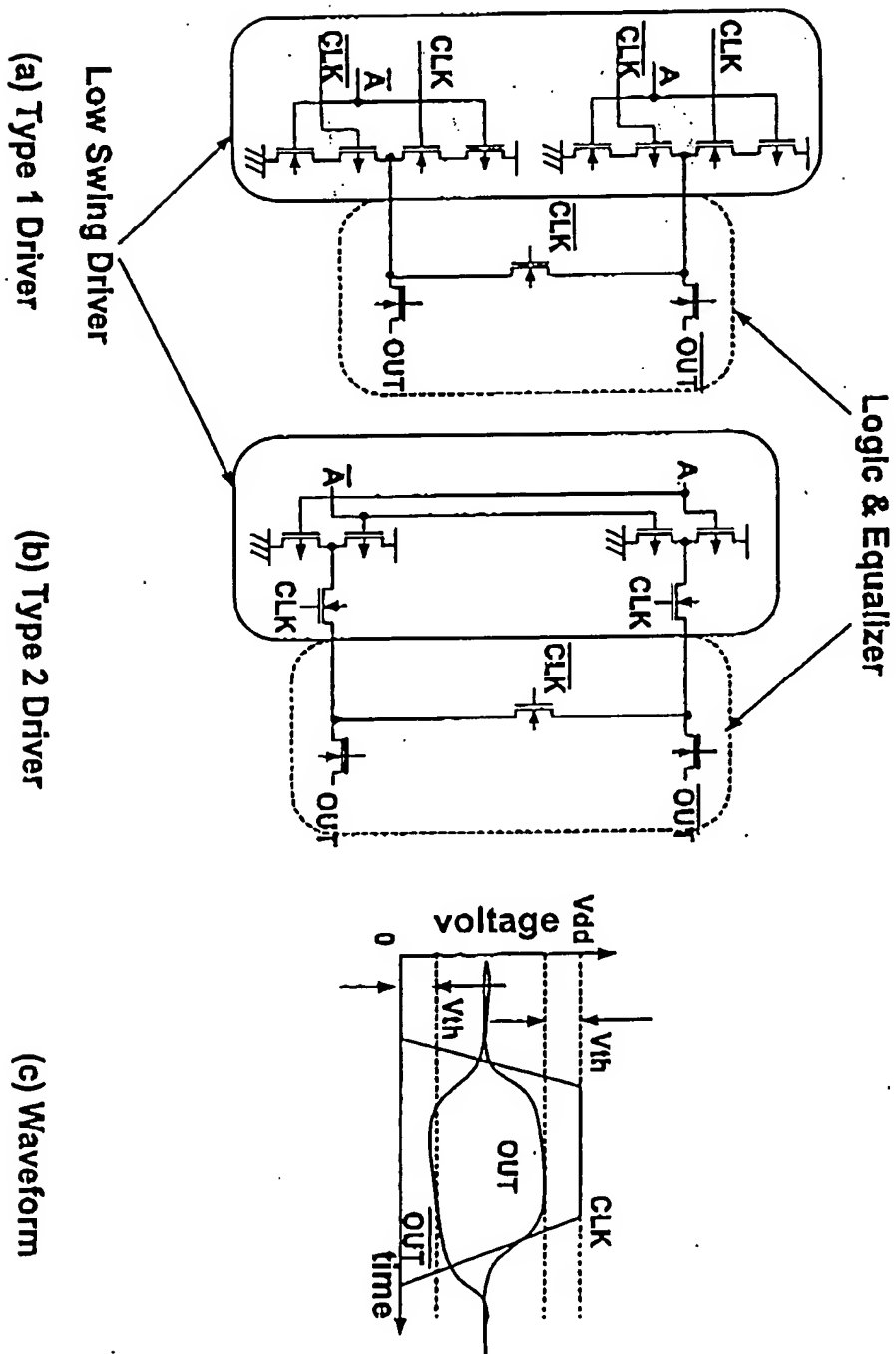


FIG.10

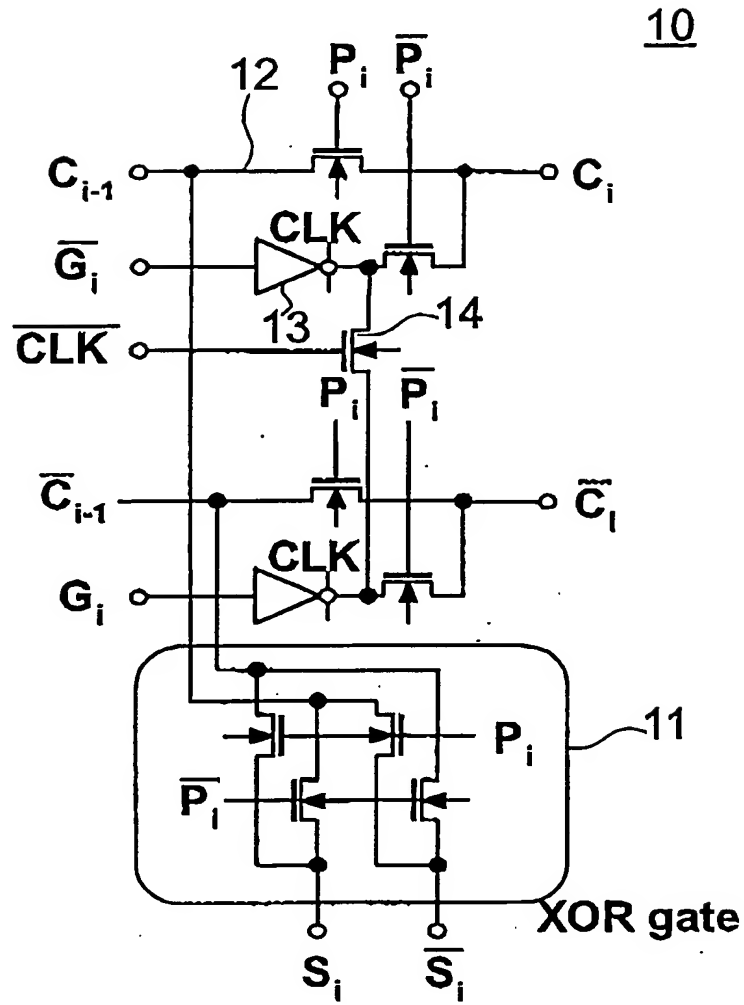


FIG. 11

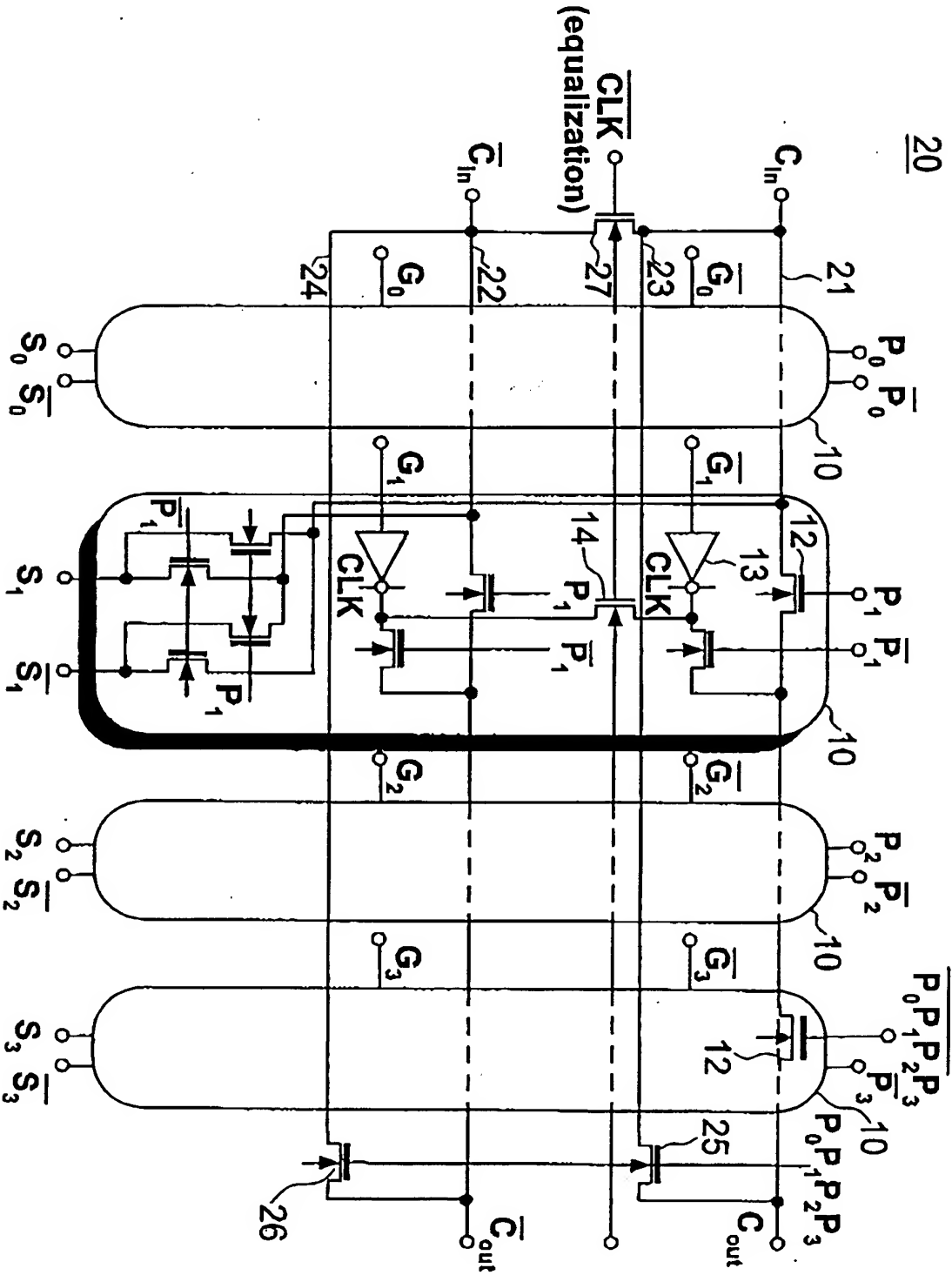
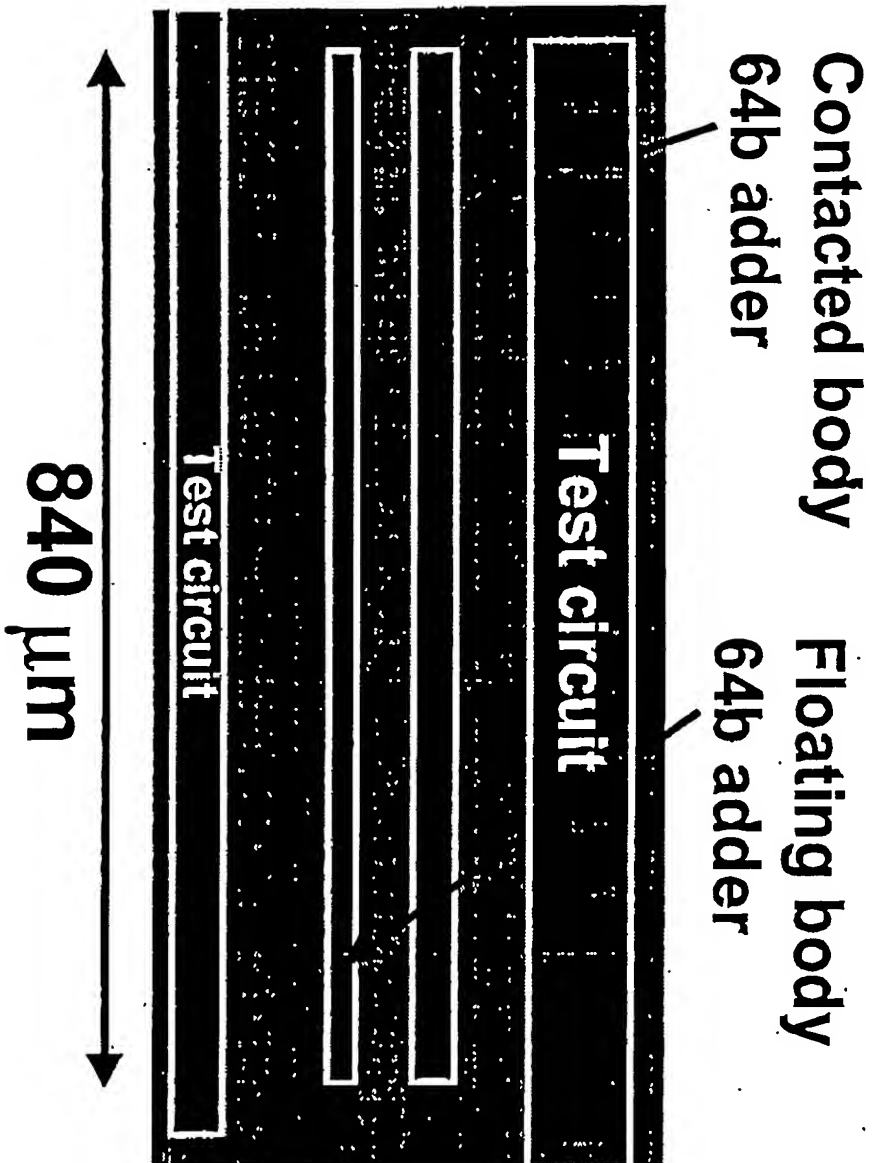
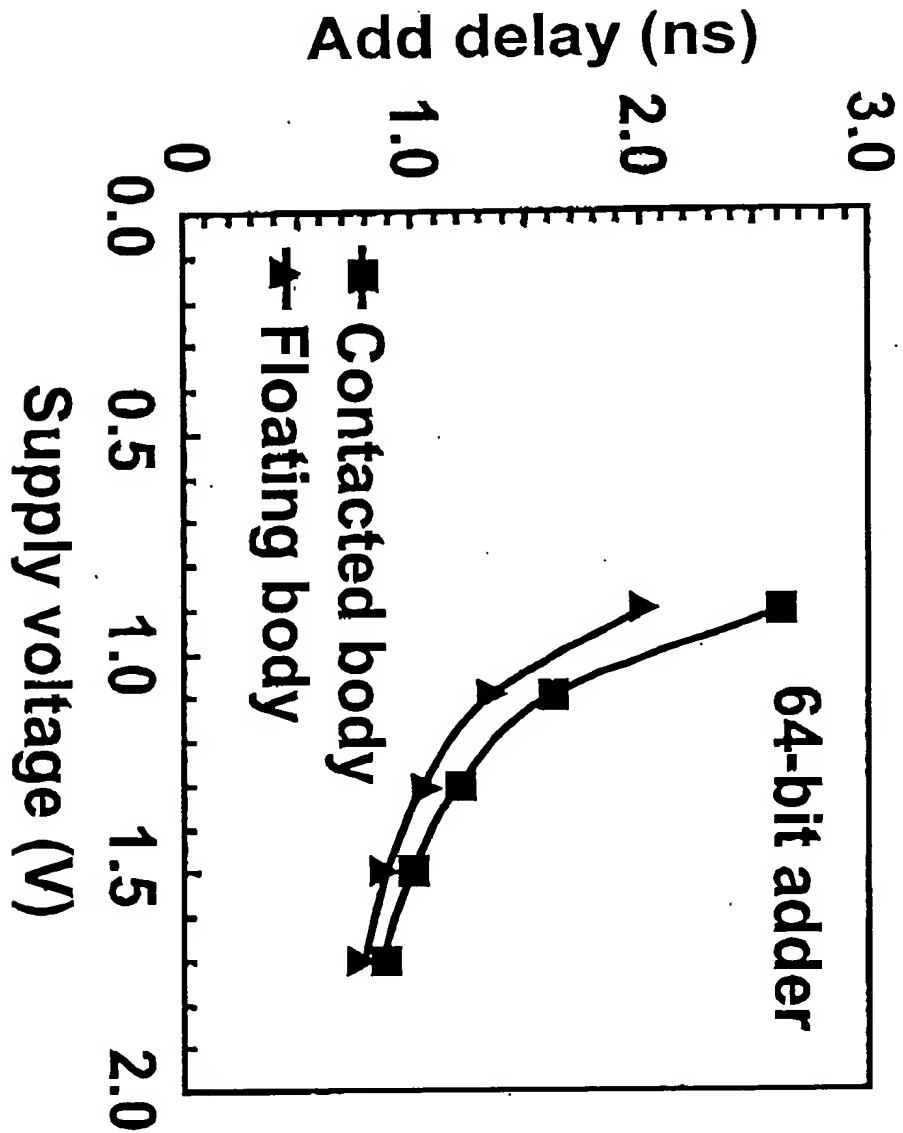




FIG. 13





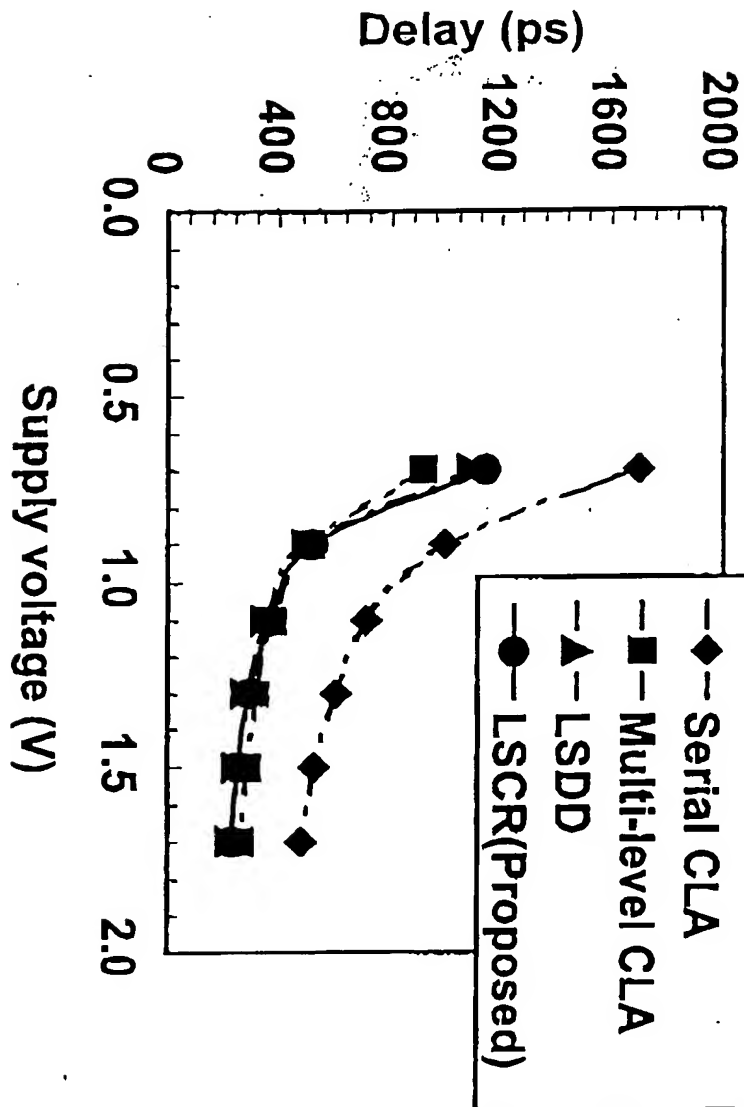


FIG. 15



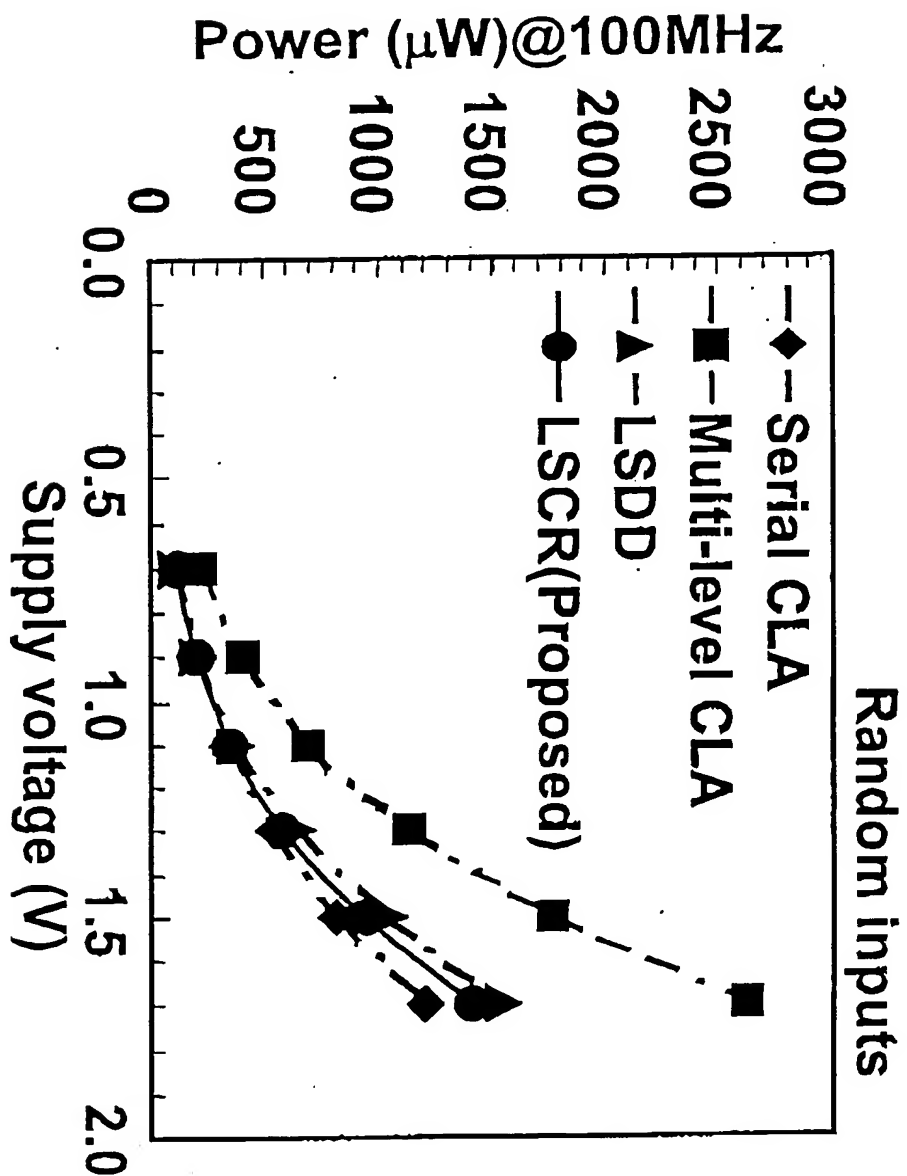


FIG. 16

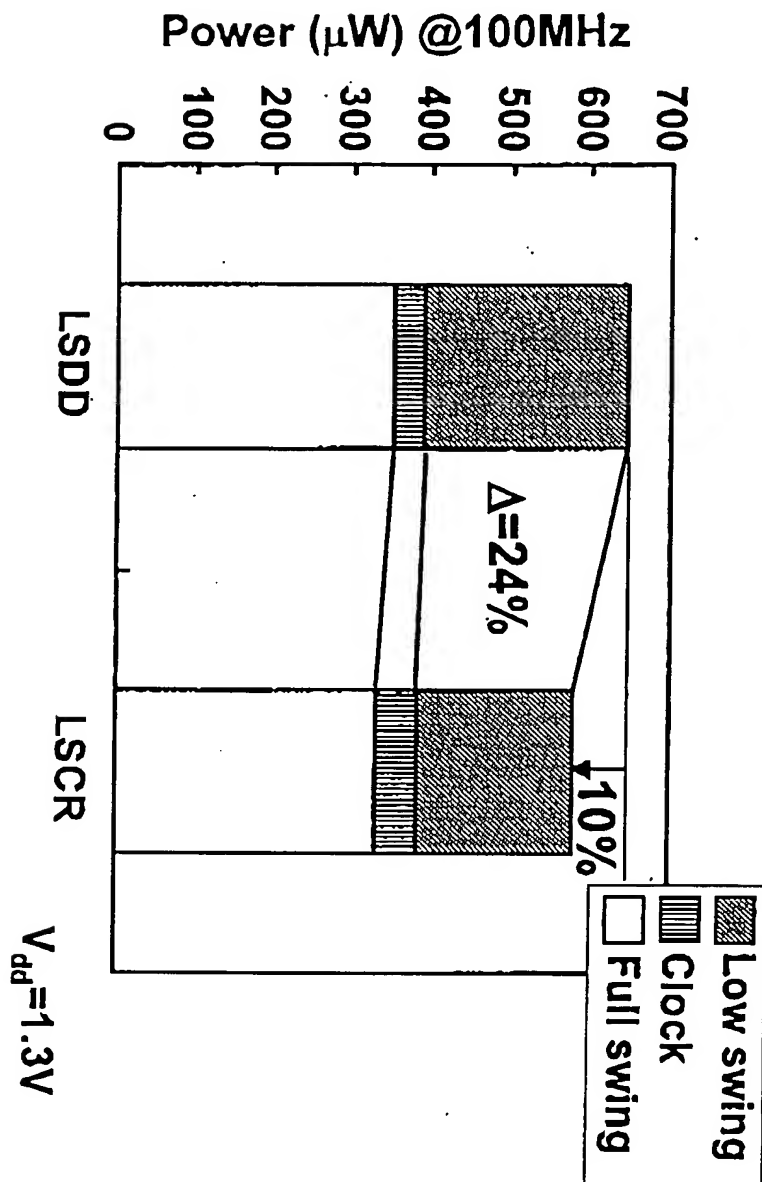


FIG. 17